



General Catalogue



professional plating solutions & machinery





BERKEM®

excellence in plating

Berkem Srl is the only Italian chemical company specializing in electroplating that designs, develops, produces and commercializes a wide range of innovative, performing and reliable galvanic products and machinery for the goldsmith, fashion, medical and applied engineering industry.

The effectiveness and quality of Berkem formulations are guaranteed by:

- in-house production of all solutions;
- check and control of all process phases;
- use of metal sponges, sheets and ingots of the highest purity as raw materials;
- full process customization.

LABORATORY ANALYSES & TEST SERVICE

Berkem has two in-house specialized and technologically-advanced analytical laboratories dedicated to research and development of new processes, production quality control and customer technical assistance.

Efficient quality control processes according to strict analytical standards, combined with continuous investment in Research & Development and improvement of the supply chain are crucial in order to allow us ensuring the marketing of repeatable products also expanding and improving our quality products offer.

Berkem offers an accurate analysis service for any galvanic process and any verification need on its deposits.

Berkem's laboratories allow performing the following chemical analyses and laboratory tests:

- chemical analysis of metals in solution by means of plasma optical emission spectroscopy (ICP-OES);
- spectroscopic analysis by X-ray fluorescence (XRF);
- chemical analysis of substances by UV-VIS spectrophotometry;
- photometric analysis of colour;
- resistance analysis of galvanic deposits;
- infrared spectroscopic analysis (FTIR);
- volumetric, conductometric, potentiometric and pH chemical analyses;
- electrochemical analysis of galvanic deposits;
- cyclic voltammetry analysis.

CUSTOMIZATIONS

Berkem transforms flexibility, creativity and knowledge into the maximum customization of product and service by meeting the needs of individual customers and materializing in the research and production of exclusive products.

Interaction with the customer creates the necessary involvement that materializes into excellent products for both parties. Berkem offers customization service for all galvanic processes in order to guarantee its client unique finishes, distinctive colours and alloy deposits suitable for use.

RESEARCH & DEVELOPMENT

Thanks to Research & Development and the cutting-edge production technology, Berkem transforms the experience gained in 10 years of activity on the market into actual successful opportunities for its customers.

Berkem Research&Development is the set of forward-looking activities focused on:

- increasing knowledge;
- making innovation available;
- improving existing products and create new ones;
- making production processes more efficient.

The significant collaborations with research institutes and Universities focused on research projects and tests on new formulations and technologies, and the growing destination of corporate investments in laboratory instruments and production technology allow Berkem to strengthen its skills with a view to continuous improvement.

The innovative technologies are considered essential for production efficiency and the quality of the final product, but the role of individuals at any level of the internal process remains the cornerstone of the corporate strategy that incentivizes teamwork, training and value of people.

THE QUALITY SYSTEM CERTIFICATION

Quality is the priority objective and reference for all business functions in the everyday routine of their work: from choosing raw materials, to the reliability of the machinery and the entire production process, to the tests and meticulous checks of each processing stage. Customer satisfaction is the nourishment of the efforts, and the certifications obtained are the proof of investments made to ensure the practicality of the work.

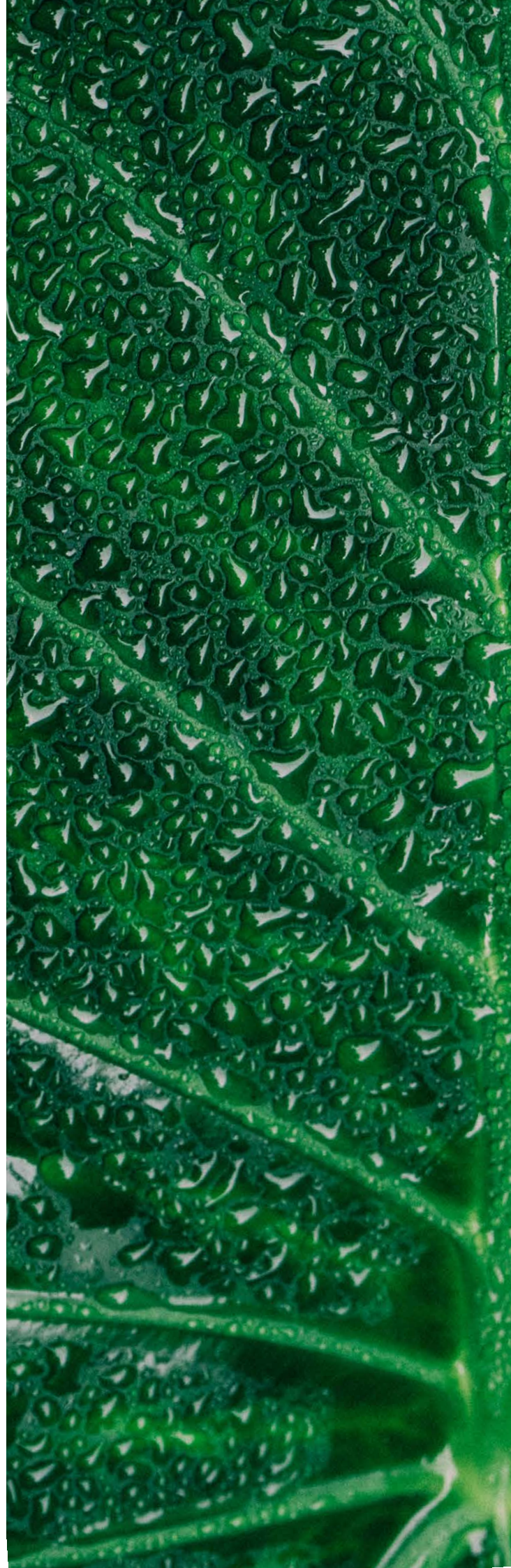
The compliance with international standards and its constant verification guarantee our reliability.



Berkem's commitment to act in a responsible and sustainable way results in certified processes for ethics, quality (UNI EN ISO 9001:2015), respect for the environment (UNI EN ISO 14001:20015), health and safety in the work environment (UNI EN ISO 45001:2018).

This effort is the testament to the effective will to:

- provide products that meet customer requirements;
- increase the customer satisfaction respecting the service;
- reduce the environmental impact of the production process;
- protect the health, safety and welfare of their employees.





ETHICS & SUSTAINABILITY



Berkem has an ethical and sustainable business idea, namely capable of creating economic value without compromising the resources of future generations, and for this purpose is committed to look for the best solutions on a daily basis in compliance with various interests and in particular with the value of

human life, man and respect for the environment. Working towards a responsible business is a decision that must be made by each person aware and involved. Cooperating with those who share a common environmental protection project is a fundamental step to make the most of the investment launched in process improvement and technological renewal.

This commitment is highlighted by the international environmental and safety certifications UNI EN ISO 14001:2015 and 45001:2018 obtained and focused on showing an eco-friendly production which favors low environmental impact.



In 2019 Berkem became a certified member of the Responsible Jewellery Council, an international non-profit Organization that brings together companies operating in the jewellery sector focused on building a responsible

supply chain for diamonds, gold, coloured stones, silver and platinum "from the mine to the consumer". The RJC has finalized a reference standard for the industry, RJC Code of Practices, based on established international principles in order to promote responsible business standards and practices.



In December 2022, Berkem obtained the RJC Chain of Custody (CoC) certification. This is a voluntary certification for RJC members and gives our customers and suppliers the assurance they need about how precious metals

are purchased, tracked and processed through the supply chain. It provides a guarantee of the integrity of our products and materials.

Berkem offers a special line of precious plating solutions, salts and precious compounds obtained from 100% recycled and RJC CoC compliant metals.

REDUCE REUSE RECYCLE

Berkem pays the utmost attention to every detail when choosing its packaging by seeking solutions capable of best preserving all products and minimizing environmental impact by complying with regulations and its commitment to sustainable production.



**HIGH QUALITY MATERIALS
FOR GREATER CHEMICAL
AND MECHANICAL RESISTANCE**



ANTI-TAMPER SAFETY SEAL



**SINGLE TYPE OF MATERIAL (PP)
FOR LABELS, LIDS, BOTTLES, TUBS
AND CANS TO FACILITATE DISPOSAL**



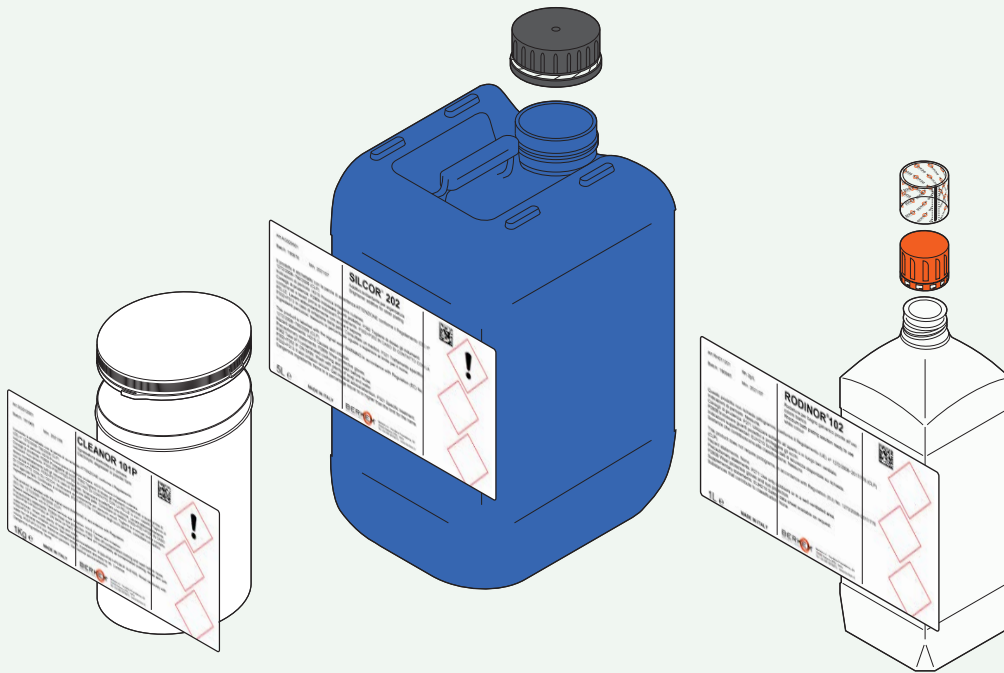
**CERTIFIED PACKAGING
FOR MAXIMUM SAFETY
WHERE REQUIRED BY LAW**



LARGE LABEL FOR EASIER READING



INNOVATIVE DESIGN



How to read symbols

AU

metal name



bath plating



decorative solution



pen plating



thickness solution



SALTS & PRECIOUS COMPOUNDS

Berkem produces in-house all salts and precious compounds, that are obtained exclusively from selected metal sponges and analytical grade reagents, thus enabling it to guarantee the high quality and purity level for achieving optimal performances.

Au

GOLD

| | | formula | concentration | packaging | code |
|------------------------|---------------------------------|---|--------------------|-----------|-----------|
| AURICOR 1683RGS | potassium gold (I) cyanide | $\text{KAu}(\text{CN})_2$ | Au: 68.3 % | 100 g | OR020701 |
| AURICOR 258RGS | potassium gold (III) cyanide | $\text{KAu}(\text{CN})_4$ | Au: 58 % | 100 g | OR013501 |
| AURICOR 100ASL | triammonium gold (I) disulphite | $(\text{NH}_4)_3\text{Au}(\text{SO}_3)_2$ | Au: 100 g/l | 1 L | OR0211401 |
| AURICOR 100PSL | potassium gold (I) sulphite | $\text{K}_3\text{Au}(\text{SO}_3)_2$ | Au: 100 g/l | 1 L | OR0211501 |
| AURICOR 100SSL | sodium gold(I) sulphite | $\text{Na}_3\text{Au}(\text{SO}_3)_2$ | Au: 100 g/l | 1 L | OR0211601 |
| AURICOR 200CL | tetrachloroauric (III) acid | HAuCl_4 | Au: 200 g/l | 1 L | OR0211701 |

Rh

RHODIUM

| | | formula | concentration | packaging | code |
|---------------------|------------------------|------------------------------|--------------------|-------------|----------|
| RODINOR 100S | rhodium (III) sulphate | $\text{Rh}_2(\text{SO}_4)_3$ | Rh: 100 g/l | 1 L - 100 g | RH011701 |
| RODINOR 100P | rhodium (II) phosphate | RhPO_4 | Rh: 100 g/l | 1 L - 100 g | RH011801 |

Pd

PALLADIUM

| | | formula | concentration | packaging | code |
|------------------------|---|---|--------------------|-----------|----------|
| PALLADOR 100CL | tetrachloropalladous (II) acid | H_2PdCl_4 | Pd: 100 g/l | 1 L | PD016101 |
| PALLADOR 100SL | palladium (II) sulphate solution | PdSO_4 | Pd: 100 g/l | 1 L | PD015901 |
| PALLADOR 100NL | palladium (II) nitrate | $\text{Pd}(\text{NO}_3)_2$ | Pd: 100 g/l | 1 L | PD016001 |
| PALLADOR 100SGS | diammine palladium (II) chloride | $\text{Pd}(\text{NH}_3)_2\text{Cl}_2$ | Pd: 50 % | 100 g Pd | PD016401 |
| PALLADOR 150DDL | dinitritediammine palladium (II) | $\text{Pd}(\text{NH}_3)_2(\text{NO}_2)_2$ | Pd: 150 g/l | 1 L | PD016301 |
| PALLADOR 100DTL | tetrammine palladium (II) chloride solution | $[\text{Pd}(\text{NH}_3)_4]\text{Cl}_2$ | Pd: 100 g/l | 1 L | PD016201 |
| PALLADOR 100DTS | tetrammine palladium (II) chloride | $\text{Pd}(\text{NH}_3)_4\text{Cl}_2 \cdot 1\text{H}_2\text{O}$ | Pd: 39-43 % | 100 g Pd | PD016601 |
| PALLADOR 100TSS | tetrammine palladium (II) sulphate | $\text{Pd}(\text{NH}_3)_4\text{SO}_4$ | Pd: 38-40 % | 100 g Pd | PD016501 |
| PALLADOR 50TSL | tetrammine palladium (II) sulphate solution | $[\text{Pd}(\text{NH}_3)_4]\text{SO}_4$ | Pd: 50 g/l | 1 L | PD017301 |

Pt

PLATINUM

| | | formula | concentration | packaging | code |
|------------------------|---|---|--------------------|-----------|----------|
| PLATINOR 50DNS | hydrogen dinitrosulphato platinate (II) | $\text{H}_2[\text{Pt}(\text{NO}_2)_2\text{SO}_4]$ | Pt: 50 g/l | 1 L | PT012201 |
| PLATINOR 100ACP | hexachloroplatinic (IV) acid | H_2PtCl_6 | Pt: 100 g/l | 1 L | PT010501 |
| PLATINOR 100DDN | diammine dinitrite platinum (II) | $\text{Pt}(\text{NH}_3)_2(\text{NO}_2)_2$ | Pt: 50-60 % | 100 g Pt | PT010601 |
| PLATINOR 100TCL | tetrammine platinum (II) chloride | $[\text{Pt}_2(\text{NH}_3)_4]\text{Cl}_2$ | Pt: 100 g/l | 1 L | PT010801 |
| PLATINOR 100SEP | sodium hexachloroplatinate (IV) | Na_2PtCl_6 | Pt: 100 g/l | 1 L | PT010701 |
| PLATINOR 100SGS | diammonium exachloro platinate (IV) | $(\text{NH}_4)_2\text{PtCl}_6$ | Pt: 43 % | 100 g Pt | PT012301 |
| PLATINOR 100TDN | tetrammine dinitrite platinum (II) | $\text{Pt}(\text{NH}_3)_4(\text{NO}_2)_2$ | Pt: 100 g/l | 1 L | PT012401 |
| PLATINOR 100PEP | potassium hexachloroplatinate (IV) | K_2PtCl_6 | Pt: 100 g/l | 1 L | PT010901 |

Ru

RUTHENIUM

| | | formula | concentration | packaging | code |
|-----------------------|--|--|--------------------|-----------|----------|
| RUTENOR 100CL | ruthenium (III) trichloride | RuCl_3 | Ru: 200 g/l | 1 L | RU012601 |
| RUTENOR 100CLS | ruthenium (II) trichloride solution | RuCl_3 | Ru: 40 % | 100 g Ru | RU013201 |
| RUTENOR 50S | triammonium, diaquaooctachloro-μ-nitridodiruthenate (IV) | $(\text{NH}_4)_3[\text{Ru}_2\text{NCl}_8(\text{H}_2\text{O})_2]$ | Ru: 50 g/l | 1 L | RU011601 |

Ag

SILVER

| | | formula | concentration | packaging | code |
|---------------------|--------------------|-----------------------|-------------------|-----------|----------|
| SILCOR 293OS | silver (I) oxide | Ag_2O | Ag: 93 % | 1 kg | AG030101 |
| SILCOR 635N | silver (I) nitrate | AgNO_3 | Ag: 63.5 % | 100 g | AG030201 |

AU

AURICOR® 100



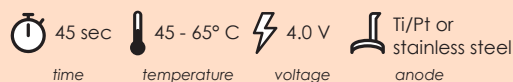
alkaline gold flash solutions for bath plating




AURICOR 100 line comprises a series of alkaline processes used for flash decorative plating depositions (<0.2 microns) in different colour shades: from light yellow (1N - 14 kt) to deep pink (6N).

All AURICOR 100 processes are free from Nickel and further allergenic substances. The line consists of ready to use solutions which are effortless and low-maintenance as well as guarantee uniform and shiny layers of caratage between 20 and 22 kt.

OPERATIONAL SETTINGS




AURICOR 101N

| | | | | |
|---|----|-------------|---------------|--------------------|
|  | L* | 91.0 | code | OR026401 |
| | a* | 0.4 | form | ready to use |
| | b* | 34.5 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |


yellow 1N - 14 kt

AURICOR 102N

| | | | | |
|---|----|-------------|---------------|--------------------|
|  | L* | 90.3 | code | OR026501 |
| | a* | 2.0 | form | ready to use |
| | b* | 30.0 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |


yellow 2N - 18 kt

AURICOR 103N

| | | | | |
|---|----|-------------|---------------|--------------------|
|  | L* | 89.6 | code | OR026601 |
| | a* | 4.0 | form | ready to use |
| | b* | 28.5 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |


yellow 3N

AURICOR 104N

| | | | | |
|---|----|-------------|---------------|--------------------|
|  | L* | 88.2 | code | OR026701 |
| | a* | 6.0 | form | ready to use |
| | b* | 25.5 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |


yellow 4N

AURICOR 105N

| | | | | |
|--|----|-------------|---------------|--------------------|
|  | L* | 87.5 | code | OR026801 |
| | a* | 8.3 | form | ready to use |
| | b* | 22.5 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |


yellow 5N

AURICOR 106N

| | | | | |
|--|----|-------------|---------------|--------------------|
|  | L* | 85.8 | code | OR026901 |
| | a* | 10.6 | form | ready to use |
| | b* | 14.8 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |


pink 6N

AURICOR 124

| | | | | |
|---|----|-------------|---------------|--------------------|
|  | L* | 85.5 | code | OR027001 |
| | a* | 7.3 | form | ready to use |
| | b* | 37.8 | concentration | Au: 0.8 g/l |
| | | | packaging | 1 L |

yellow 24 kt

AURICOR 124P

| | | | | |
|---|----|-------------|---------------|-----------------------|
|  | L* | 85.5 | code | OR021205 |
| | a* | 7.3 | form | powder |
| | b* | 37.8 | concentration | Au: 0.8 g/100g |
| | | | packaging | 100 g |

yellow 24 kt

Make-up & Maintenance

| | | concentration | packaging | code |
|-----------------------------|---------------------|------------------------|-----------|----------|
| AURICOR 100BS | make up solution | | 1 - 25 L | OR022710 |
| AURICOR 100SF | make up salts | | 1 kg | OR027501 |
| AURICOR 110RAG-1L | silver replenisher | Ag: 10 g/l | 1 L | OR027101 |
| AURICOR 110RAG-100ML | silver replenisher | Ag: 1 g/100 ml | 100 ml | OR027105 |
| AURICOR 110RCU-1L | copper replenisher | Cu: 10 g/l | 1 L | OR027201 |
| AURICOR 110RCU-100ML | copper replenisher | Cu: 1 g/100 ml | 100 ml | OR028501 |
| AURICOR 100RGL-1L | gold replenisher | Au: 100 g/l | 1 L | OR027301 |
| AURICOR 100RGL-100ML | gold replenisher | Au: 10 g/100 ml | 100 ml | OR028601 |
| AURICOR 100RA | brightener additive | | 250 ml | OR020705 |



AURICOR® 201



acid gold flash solutions for bath plating on stainless steel and titanium alloys



AURICOR 201 is a strongly acid gilding which acts as a primer on metal surfaces, such as stainless steel or titanium alloys where the adhesion is difficult, in order to prepare the surface for the next decorative plating solution.

AURICOR 201 ensures long-term stability and durability of the final deposition.

OPERATIONAL SETTINGS

| | | | |
|-------------|--------------------|----------------|--------------|
| 90 sec | 45° C | 3.0 V | Ti/Pt |
| <i>time</i> | <i>temperature</i> | <i>voltage</i> | <i>anode</i> |

AURICOR 201



yellow 24 kt

| | | | |
|----|-------------|---------------|------------------|
| L* | 87.7 | code | OR013301 |
| a* | 3.4 | form | ready to use |
| b* | 34.2 | concentration | Au: 1 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|-----------------------|--------------------|-------------------|-----------|----------|
| AURICOR 201RI | indium replenisher | In: 20 g/l | 1 L | OR012101 |
| AURICOR 201RAU | gold replenisher | Ag: 20 g/l | 1 L | OR011601 |
| AURICOR 201S | conducting salts | | 1 kg | OR013601 |



AURICOR® 325



acid gold flash solutions for pen plating on stainless steel



AURICOR 325 is an acid gilding for pen plating which acts as a primer on stainless steel surfaces where deposition is difficult, in order to prepare the surface for the next decorative plating solution.

AURICOR 325 is perfect to emphasise small and specific details.

OPERATIONAL SETTINGS

| | | |
|-------------|--------------------|----------------|
| 7 - 15 sec | room temp | 7 -10 V |
| <i>time</i> | <i>temperature</i> | <i>voltage</i> |

AURICOR 325



yellow 24 kt

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 88.4 | code | OR011900 |
| a* | 4.6 | form | ready to use |
| b* | 35.5 | concentration | Au: 2 g/100 ml |
| | | packaging | 100 ml |

AU

AURICOR® 300



alkaline gold flash solutions for pen plating



AURICOR 300 comprises a series of alkaline gildings for pen plating processes developed for decorative applications on precious metals. AURICOR 300 consists of ready to use solutions which guarantee bright shades ranging from light yellow 1N-14 kt colour to deep pink 6N colour.

AURICOR 300 is perfect to emphasise small and specific details and to cover solder joints.

OPERATIONAL SETTINGS

7 - 15 sec
 room temp
 6.0 V
time *temperature* *voltage*

AURICOR 301N



yellow 1N - 14 kt

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.4 | code | OR027601 |
| a* | 0.6 | form | ready to use |
| b* | 35.5 | concentration | Au: 1 g/100 ml |
| | | packaging | 100 ml |

AURICOR 302N



yellow 1N - 14 kt

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.1 | code | OR027701 |
| a* | 1.8 | form | ready to use |
| b* | 29.9 | concentration | Au: 1 g/100 ml |
| | | packaging | 100 ml |

AURICOR 303N



yellow 3N

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.0 | code | OR027801 |
| a* | 3.5 | form | ready to use |
| b* | 28.5 | concentration | Au: 1 g/100 ml |
| | | packaging | 100 ml |

AURICOR 306N



pink 6N

| | | | |
|----|-------------|---------------|-------------------------|
| L* | 85.7 | code | OR027901 |
| a* | 10.6 | form | ready to use |
| b* | 15.2 | concentration | Au: 0.3 g/100 ml |
| | | packaging | 100 ml |

AURICOR 324



yellow 24 kt

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 88.4 | code | OR028001 |
| a* | 4.6 | form | ready to use |
| b* | 35.5 | concentration | Au: 2 g/100 ml |
| | | packaging | 100 ml |

AU

AURICOR® 401



green gold flash solutions for bath plating



AURICOR 401 is a particular decorative gold flash plating solution, cyanide-free and ready to use, capable of depositing a green colouring gold-cadmium alloy as interesting alternative to traditional jewellery colours.

OPERATIONAL SETTINGS

90 sec
 45° C
 3.0 V
 Ti/Pt
time *temperature* *voltage* *anode*

AURICOR 401



green

| | | | |
|----|-------------|---------------|------------------|
| L* | 82.0 | code | OR028101 |
| a* | -3.0 | form | ready to use |
| b* | 25.0 | concentration | Au: 1 g/l |
| | | packaging | 1 L |

AU

AURICOR® 404



Hamilton gold flash solutions for bath plating



AURICOR 404 is a decorative alkaline flash plating solution capable of depositing a standard yellow colouring gold Hamilton alloy.



OPERATIONAL SETTINGS



AURICOR 404



Hamilton

| | | | |
|----|------|---------------|------------------|
| L* | 89.5 | code | OR0211001 |
| a* | 3.5 | form | ready to use |
| b* | 36.0 | concentration | Au: 1 g/l |
| | | packaging | 1 L |

AU

AURICOR® 406



brown gold flash solutions for bath plating



AURICOR 406 is a particular acid based gold plating solution, able to deposit a brown colour alloy of gold/copper/ruthenium.



This gold plating solution is composed by a sophisticated organic matrix to stabilize the electrolyte and guarantee an easy maintenance of the process. The brown colour shade can be adjusted by using a special additive.

OPERATIONAL SETTINGS



AURICOR 406



brown

| | | | |
|----|------|---------------|------------------|
| L* | 70.0 | code | OR011701 |
| a* | 8.5 | form | ready to use |
| b* | 18.0 | concentration | Au: 1 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------------|-----------------------|--------------------|-----------|----------|
| AURICOR 406RA-1L | darkening additive | | 1 L | OR011101 |
| AURICOR 406RA-100ML | darkening additive | | 100 ml | OR016301 |
| AURICOR 406RCU | copper replenisher | Cu: 2.5 g/l | 1 L | OR011201 |
| AURICOR 406RRU | ruthenium replenisher | Ru: 10 g/l | 1 L | OR011301 |
| AURICOR 406RAU | gold replenisher | Au: 20 g/l | 1 L | OR011401 |
| AURICOR 406SA | conducting salts 'A' | | 1 kg | OR016101 |
| AURICOR 406SB | conducting salts 'B' | | 1 kg | OR016201 |

AU

AURICOR® 502N | 524



acid gold thickness solutions for bath plating



AURICOR 502N and 524 are high-tech slightly acid gildings which can easily deposit gold thicknesses up to 5 microns. Respective deposition colours are yellow 2N - 18 kt and yellow 24 kt.



AURICOR 502N and 524 produce strong bright gold coats in 23 - 24 kt which provide an excellent resistance to corrosion.

OPERATIONAL SETTINGS

240 sec
time

30° C
temperature

3.5 V
voltage

Ti/Pt
anode

AURICOR 502N



yellow 2N - 18 kt

| | | | |
|----|------|---------------|------------------|
| L* | 84.0 | code | OR013801 |
| a* | 5.1 | form | ready to use |
| b* | 27.5 | concentration | Au: 4 g/l |
| | | packaging | 1 L |

AURICOR 524



yellow 24 kt

| | | | |
|----|------|---------------|------------------|
| L* | 84.5 | code | OR013701 |
| a* | 7.8 | form | ready to use |
| b* | 30.6 | concentration | Au: 4 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|------------------------|----------------------|------------------------|-----------|----------|
| AURICOR 502N-BS | make up solution | | 1 - 25 L | OR014301 |
| AURICOR 502NR | gold replenisher | Au: 2 g/200 ml | 200 ml | OR010201 |
| AURICOR 524R | gold replenisher | Au: 2 g/200 ml | 200 ml | OR010101 |
| AURICOR 540RI | indium replenisher | In: 40 g/l | 1 L | OR027105 |
| AURICOR 540RC | cobalt replenisher | Co: 40 g/l | 1 L | OR014001 |
| AURICOR 540RN | nickel replenisher | Ni: 40 g/l | 1 L | OR014101 |
| AURICOR 500RA | stabilizing additive | | 1 L | OR014201 |
| AURICOR 500SA | conducting salts A | | 1 kg | OR014501 |
| AURICOR 500SB | conducting salts B | | 1 kg | OR015101 |
| AURICOR 500SC | conducting salts C | | 1 kg | OR011505 |
| AURICOR 500RGL | gold replenisher | Au: 10 g/100 ml | 100 ml | OR014401 |

AU

AURICOR® 724



alkaline gold flash solutions for bath plating



AURICOR 724 is a weak-alkaline special gilding with a very low gold concentration (0.12 - 0.18 g/l), which is totally cyanides-free.



A distinguishing characteristic is the surprising uniformity of deposit, which makes AURICOR 724 the ideal choice for large volume tanks (over 250 liters). Applications: household items (lamps, handles, chairs) as well as fashion accessories.

OPERATIONAL SETTINGS

120 sec
time

50° C
temperature

2.0 V
voltage

Ti/Pt or stainless steel
anode

AURICOR 724



yellow 24 kt

| | | | |
|----|------|---------------|---------------------|
| L* | 85.5 | code | OR020101 |
| a* | 6.3 | form | ready to use |
| b* | 37.0 | concentration | Au: 0.15 g/l |
| | | packaging | 1 L |

AU

AURICOR® 535



acid gold thickness solutions for bath plating



AURICOR 535 is a high technical level weakly acid gilding for thickness, with a light fashion yellow colour (yellow 2N - 3N) capable of depositing a gold-iron-indium Ni-free alloy up to 1 micron in 23 kt.



OPERATIONAL SETTINGS

| | | | |
|--------------|--------------------|----------------|--------------|
| 60 - 600 sec | 35° C | 3.5 V | Ti/Pt |
| <i>time</i> | <i>temperature</i> | <i>voltage</i> | <i>anode</i> |

AURICOR 535



yellow 2N - 3N

| | | | |
|----|-------------|---------------|------------------|
| L* | 84.5 | code | OR016401 |
| a* | 4.5 | form | ready to use |
| b* | 28.0 | concentration | Au: 2 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------|----------------------|-------------------|-----------|----------|
| AURICOR 500RA | stabilizing additive | | 1 L | OR014201 |
| AURICOR 520RF | iron replenisher | Fe: 20 g/l | 1 L | OR015501 |
| AURICOR 540RI | indium replenisher | In: 40 g/l | 1 L | OR027105 |
| AURICOR 535SA | conducting salts A | | 1kg | OR015801 |
| AURICOR 535SB | conducting salts B | | 1 kg | OR015901 |

Rh

RODINOR® 102 | 104 | 120

Ni
freeCd
freeCo
free

bright white rhodium solutions for bath plating



RODINOR 120 | 102 | 104 is the easiest line to use.

This white and shiny rhodium plating is characterised by a high strength against pollution and a wide range of working conditions that guarantee versatility and optimal results in different applications.

Suitable for any use, it is the best choice for a perfect bright white finishing in jewellery.

OPERATIONAL SETTINGS

 40 sec
time

 50° C
temperature

 3.5 V
voltage

 Ti/Pt
anode

RODINOR 102



white

| | | | |
|----|-------------|---------------|------------------|
| L* | 90.2 | code | RH011201 |
| a* | 1.2 | form | ready to use |
| b* | 1.8 | concentration | Rh: 2 g/l |
| | | packaging | 1 L |

RODINOR 104



white

| | | | |
|----|-------------|---------------|------------------|
| L* | 90.2 | code | RH012101 |
| a* | 1.2 | form | ready to use |
| b* | 1.8 | concentration | Rh: 4 g/l |
| | | packaging | 1 L |

RODINOR 120



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.2 | code | RH011301 |
| a* | 1.2 | form | concentrated |
| b* | 1.8 | concentration | Rh: 2 g/100 ml |
| | | packaging | 100 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------------|---------------------|-----------------------|-----------|----------|
| RODINOR 125R | rhodium replenisher | Rh: 5 g/100 ml | 100 ml | RH011401 |
| RODINOR 120RA | brightener additive | | 1 L | RH011501 |
| RODINOR 120RA-100ML | brightener additive | | 100 ml | RH012201 |

Rh

RODINOR® 110

Ni
freeCd
freeCo
free

high performance white rhodium solutions for bath plating



RODINOR 110 is the exclusive formulation of shining white rhodium plating characterised by the use of innovative additives capable of giving a level of whiteness and shine never before achieved by any other rhodium plating on the market.

Combined with the advanced coating power and the excellent throwing power, RODINOR 110 is the perfect choice on jewels with stones.

OPERATIONAL SETTINGS

 40 sec
time

 45° C
temperature

 3.5 V
voltage

 Ti/Pt
anode

RODINOR 110



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.5 | code | RH010601 |
| a* | 1.1 | form | concentrated |
| b* | 1.6 | concentration | Rh: 2 g/200 ml |
| | | packaging | 200 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------------|---------------------|-----------------------|-----------|----------|
| RODINOR 115R | rhodium replenisher | Rh: 5 g/200 ml | 200 ml | RH010701 |
| RODINOR 110RA-1L | brightener additive | | 1 L | RH010801 |
| RODINOR 110RA-100ML | brightener additive | | 100 ml | RH010901 |

Rh

RODINOR® 140



pure white rhodium solutions for bath plating



RODINOR 140 is the white rhodium plating characterised by the distribution of the deposit and its particular dazzling colour.

The special rhodium complex used, combined with new generation additives, makes RODINOR 140 the ideal choice for mass production with consumption under 40% compared to traditional white rhodium plating.



OPERATIONAL SETTINGS



RODINOR 140



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.2 | code | RH010101 |
| a* | 1.2 | form | concentrated |
| b* | 1.9 | concentration | Rh: 2 g/100 ml |
| | | packaging | 100 ml |

RODINOR 144



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 90.2 | code | RH010201 |
| a* | 1.2 | form | concentrated |
| b* | 1.9 | concentration | Rh: 4 g/100 ml |
| | | packaging | 100 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------------|---------------------|-----------------------|-----------|----------|
| RODINOR 145R | rhodium replenisher | Rh: 5 g/100 ml | 100 ml | RH010301 |
| RODINOR 140RA-1L | brightener additive | | 1 L | RH010401 |
| RODINOR 140RA-100ML | brightener additive | | 100 ml | RH010501 |

Rh

RODINOR® 152



brilliant white rhodium solutions for bath plating



RODINOR 152 is a dual-component (with a separate additive) rhodium process extremely white and shiny with incomparable technical and qualitative properties, perfect to exalt diamond brightness, with a high strength against pollution.

Suitable for any use, it is characterized by the high range of working temperatures (from 25°C to 70°C) and by the long lasting performance of the deposit (the solution works until a Rh concentration of 0,6 g/l).



OPERATIONAL SETTINGS



RODINOR 152



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 91.2 | code | RH012501 |
| a* | 1.0 | form | concentrated |
| b* | 1.5 | concentration | Rh: 2 g/100 ml |
| | | packaging | 200 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------|---------------------|-----------------------|-----------|----------|
| RODINOR 155R | rhodium replenisher | Rh: 5 g/100 ml | 100 ml | RH012801 |
| RODINOR 152RB | brightener additive | | 100 ml | RH012701 |

Rh

RODINOR® 202 | 220



black rhodium solutions for bath plating



RODINOR 220 and 202 are black rhodium plating processes, easy to use, which provide a brilliant and elegant black uniform deposit. The line consists of both concentrated and ready to use solutions and also, of two different blackening agents to correct the colour.

OPERATIONAL SETTINGS

120 sec
time

60° C
temperature

4.0 V
voltage

Ti/Pt
anode

RODINOR 202

| | | | | |
|-------|----|-------------|---------------|------------------|
| | L* | 65.0 | code | RH020101 |
| | a* | 0.5 | form | ready to use |
| | b* | 0.9 | concentration | Rh: 2 g/l |
| white | | | packaging | 1 L |

RODINOR 220

| | | | | |
|-------|----|-------------|---------------|-----------------------|
| | L* | 65.0 | code | RH020201 |
| | a* | 0.5 | form | concentrated |
| | b* | 0.9 | concentration | Rh: 2 g/200 ml |
| white | | | packaging | 200 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------|----------------------------|-----------------------|-----------|----------|
| RODINOR 250R | rhodium replenisher | Rh: 5 g/100 ml | 100 ml | RH020501 |
| RODINOR 200RA | blackening agent (shade 1) | | 1 L | RH020301 |
| RODINOR 204RA | blackening agent (shade 3) | | 1 L | RH020701 |

Rh

RODINOR® 300



rhodium solutions for pen plating



RODINOR 300 is a line of rhodium pen plating solutions available in white and black colours. The main features are the high deposition speed, the brilliance of the deposit, the limited development of bubbles when applied, and the chemical stability of the solutions.

RODINOR 300 is the right choice for two-tone designs, small details and for textured surfaces.

OPERATIONAL SETTINGS

5 - 10 sec
time

room temp
temperature

10 V
voltage

RODINOR 320

| | | | | |
|-------|----|-------------|---------------|-----------------------|
| | L* | 89.2 | code | RH030501 |
| | a* | 0.6 | form | concentrated |
| | b* | 2.2 | concentration | Rh: 2 g/100 ml |
| white | | | packaging | 100 ml |

RODINOR 321

| | | | | |
|-------|----|-------------|---------------|-----------------------|
| | L* | 88.6 | code | RH030101 |
| | a* | 0.7 | form | concentrated |
| | b* | 2.3 | concentration | Rh: 2 g/100 ml |
| white | | | packaging | 100 ml |

RODINOR 322

| | | | | |
|-------|----|-------------|---------------|-----------------------|
| | L* | 58.0 | code | RH030201 |
| | a* | -0.5 | form | concentrated |
| | b* | 2.0 | concentration | Rh: 2 g/100 ml |
| black | | | packaging | 100 ml |

Pd

PALLADOR® 102



white palladium flash solutions for bath plating



PALLADOR 102 is a pure palladium plating solution for white decorative finishings, moreover, when used as a plating pre-layer on silver or further base metals, becomes a barrier to prevent oxidation.



OPERATIONAL SETTINGS



PALLADOR 102



white

| | | | |
|----|-------------|---------------|------------------|
| L* | 85.5 | code | PD012901 |
| α* | 0.8 | form | ready to use |
| b* | 4.2 | concentration | Pd: 2 g/l |
| | | packaging | 1 L |

PALLADOR 102C



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 85.5 | code | PD010101 |
| α* | 0.8 | form | concentrated |
| b* | 4.2 | concentration | Pd: 2 g/250 ml |
| | | packaging | 250 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------|-------------------------|------------------------|-----------|----------|
| PALLADOR 100RP | palladium replenisher | Pd: 100 g/l | 1 L + 1 L | PD013001 |
| PALLADOR 120RP | palladium replenisher | Pd: 20 g/200 ml | 200 ml | PD013101 |
| PALLADOR 100RA | brightener additive 'A' | | 1 L | PD013201 |
| PALLADOR 100RB | brightener additive 'B' | | 1 L | PD013301 |
| PALLADOR 100WA | wetting agent | | 1 L | PD013401 |
| PALLADOR 100S | conducting salts | | 1 kg | PD013501 |

Pd

PALLADOR® 305



white palladium-nickel alloy solutions for bath plating



PALLADOR 305 is a palladium-nickel plating solution that can be used for white flash or thickness (up to 5 microns) finishings and to guarantee an extremely hard and compact deposit.

PALLADOR 305 is formulated to deposit a Pd-Ni (80 % - 20 %) alloy which can be modified to prevent the release of nickel in compliance with EC regulation 94/27.

OPERATIONAL SETTINGS



PALLADOR 305



white

| | | | |
|----|-------------|---------------|---------------------|
| L* | 85.0 | code | PD012001 |
| α* | 1.0 | form | ready to use |
| b* | 4.0 | concentration | Pd-Ni: 5 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------|-------------------------|--------------------|-----------|----------|
| PALLADOR 300RP | palladium replenisher | Pd: 100 g/l | 1 L + 1 L | PD015101 |
| PALLADOR 300RN | nickel replenisher | Ni: 100 g/l | 1 L | PD015505 |
| PALLADOR 300RA | brightener additive 'A' | | 1 L | PD010901 |
| PALLADOR 300RB | brightener additive 'B' | | 1 L | PD011001 |
| PALLADOR 300WA | wetting agent | | 1 L | PD012401 |
| PALLADOR 300S | conducting salts | | 1 kg | PD016701 |

Pd

PALLADOR® 405

Ni
freeCd
freeCo
free

white palladium-indium alloy solutions for bath plating



PALLADOR 405 is a palladium-indium plating solution that guarantees a deposit extremely compact and resistant to oxidation and can be used as a white decorative flash or thickness (up to 2 microns) finishing or as an intermediate layer before other plating processes to prevent diffusion.

PALLADOR 405 deposits a Pd-In (90 % - 10 %) alloy which is completely anallergic and free from toxic heavy metals.

OPERATIONAL SETTINGS



240 sec

time



40° C

temperature



2.2 V

voltage



Ti/Pt

anode

PALLADOR 405



white

| | | | |
|----|-------------|---------------|---------------------|
| L* | 85.0 | code | PD010201 |
| a* | 1.0 | form | ready to use |
| b* | 4.2 | concentration | Pd-In: 5 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------|-------------------------|-------------------|----------------|----------|
| PALLADOR 400RP | palladium replenisher | Pd: 100 g | 100 g + 200 ml | PD010301 |
| PALLADOR 420RP | palladium replenisher | Pd: 20 g | 20 g + 200 ml | PD010401 |
| PALLADOR 400RA | brightener additive 'A' | | 1 L | PD011901 |
| PALLADOR 400RB | brightener additive 'B' | | 1 L | PD010801 |
| PALLADOR 400RC | brightener additive 'C' | | 1 L | PD011401 |
| PALLADOR 400RI | indium replenisher | In: 10 g/l | 1 L | PD010701 |
| PALLADOR 400WA | wetting agent | | 1 L | PD011201 |
| PALLADOR 400S | conducting salts | | 1 kg | PD012801 |

Pd

PALLADOR® 506

Cd
freeCo
free

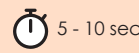
palladium-nickel pen plating solutions



PALLADOR 506 is a white palladium-nickel pen plating solution developed for costume jewellery and fashion accessories.

PALLADOR 506 is the right choice for two-tone designs, small details and for textured surfaces.

OPERATIONAL SETTINGS



5 - 10 sec

time



room temp

temperature



6.0 V

voltage

PALLADOR 506



white

| | | | |
|----|-------------|---------------|----------------------------|
| L* | 85.0 | code | PD017401 |
| a* | 1.0 | form | ready to use |
| b* | 4.0 | concentration | Pd-Ni: 0.6 g/100 ml |
| | | packaging | 100 ml |

Pt

PLATINOR® 102 | 104



white platinum solutions for bath plating



PLATINOR 102 and 104 are pure platinum plating solutions that can be used either as thickness (up to 8 microns) or flash process for white finishes above all on platinum 950 alloy jewels. It is extremely easy to use and to maintain.

PLATINOR 102 and 104 are the perfect alternative to palladium plating solutions as intermediate layer in plating process.

OPERATIONAL SETTINGS



PLATINOR 102



white

| | | | |
|----|-------------|---------------|------------------|
| L* | 87.5 | code | PT010201 |
| α* | 0.6 | form | ready to use |
| b* | 3.5 | concentration | Pt: 2 g/l |
| | | packaging | 1 L |

PLATINOR 104



white

| | | | |
|----|-------------|---------------|------------------|
| L* | 87.5 | code | PT010301 |
| α* | 0.6 | form | ready to use |
| b* | 3.5 | concentration | Pt: 4 g/l |
| | | packaging | 1 L |

PLATINOR 104C



white

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 87.5 | code | PT010101 |
| α* | 0.6 | form | concentrated |
| b* | 3.5 | concentration | Pt: 4 g/250 ml |
| | | packaging | 250 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|-----------------------|----------------------|-----------------------|-----------|----------|
| PLATINOR 125RPL | platinum replenisher | Pt: 25 g/l | 1 L | PT010401 |
| PLATINOR 125RPL-200ML | platinum replenisher | Pt: 5 g/200 ml | 200 ml | PT011001 |
| PLATINOR 100RA | brightener additive | | 1 L | PT011301 |
| PLATINOR 100RA-100ML | brightener additive | | 100 ml | PT011302 |

Pt

PLATINOR® 202



white platinum flash solutions for bath plating



PLATINOR 202 is a pure platinum flash plating solution suitable for superior results as pre-layer before rhodium. PLATINOR 202 works at room temperature ensuring faster process timing and it is characterized by an excellent throwing power.

OPERATIONAL SETTINGS



PLATINOR 202



white

| | | | |
|----|-------------|---------------|------------------|
| L* | 87.0 | code | PT012301 |
| α* | 0.7 | form | ready to use |
| b* | 4.2 | concentration | Pt: 2 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|-----------------------|----------------------|-----------------------|-----------|----------|
| PLATINOR 250RPL | platinum replenisher | Pt: 50 g/l | 1 L | PT012401 |
| PLATINOR 250RPL-100ML | platinum replenisher | Pt: 5 g/100 ml | 100 ml | PT012402 |

Pt
Ru

WHITENOR® 102



alternative white platinum-ruthenium solutions for bath plating



WHITENOR 102 is the surprising Berkem's process for platinum-ruthenium-based decorative and thickness (up to 3 microns) bath plating that guarantees extremely white and shiny deposits free from any yellowish reflections. WHITENOR 102 deposits directly on any precious metal surface including silver and it has excellent performances as intermediate layer before final colour finishing.

WHITENOR 102 is the perfect alternative to traditional rhodium, pure platinum and palladium solutions.

WHITENOR 102



white

| | | | |
|----|-------------|---------------|---------------------|
| L* | 88.0 | code | PT011601 |
| a* | 0.55 | form | ready to use |
| b* | 2.8 | concentration | Pt-Ru: 2 g/l |
| | | packaging | 1 L |

OPERATIONAL SETTINGS

| | | | |
|--------|-------------|---------|-------|
| 90 sec | 55° C | 4.0 V | Ti/Pt |
| time | temperature | voltage | anode |

Make-up & Maintenance

| | | concentration | packaging | code |
|------------------------|-----------------------|-----------------------|-----------|----------|
| WHITENOR 100RRU | ruthenium replenisher | Ru: 6 g/100 ml | 100 ml | PT011701 |
| WHITENOR 100RPT | platinum replenisher | Pt: 20 g/l | 1 L | PT011801 |

Ru

RUTENOR® 105



grey ruthenium flash solutions for bath plating



RUTENOR 105 is a ruthenium plating process with a light grey-titanium colour, very easy to use and with an extremely hard compact deposit of pure ruthenium, it is considered to be the perfect decorative choice.

OPERATIONAL SETTINGS

| | | | |
|---------|-------------|---------|-------|
| 120 sec | 50° C | 3.0 V | Ti/Pt |
| time | temperature | voltage | anode |

RUTENOR 105



grey

| | | | |
|----|-------------|---------------|------------------|
| L* | 72.5 | code | RU010701 |
| a* | 0.6 | form | ready to use |
| b* | 3.0 | concentration | Ru: 5 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|---------------------|-----------------------|-------------------|-----------|----------|
| RUTENOR 150R | ruthenium replenisher | Ru: 50 g/l | 1 L | RU010801 |
| RUTENOR 100S | conducting salts | | 1 kg | RU010901 |

Ru

RUTENOR® 205C



extra-black ruthenium flash solutions for bath plating



RUTENOR 205C is an extremely black (extra-black) ruthenium plating process with a compact uniform deposit of pure ruthenium. The deposit is stable over time due to the special liquid blackening additive, which distinguishes it from other processes on the market.

RUTENOR 205C can be deposited directly on palladium, platinum and gold surfaces.

OPERATIONAL SETTINGS



RUTENOR 205C



extra-black

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 35.0 | code | RU012001 |
| a* | 0.2 | form | concentrated |
| b* | 0.8 | concentration | Au: 5 g/600 ml |
| | | packaging | 600 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|---------------------------|------------------------------|-----------------------|--------------|----------|
| RUTENOR 250R | ruthenium replenisher | Ru: 50 g/l | 1 L | RU011101 |
| RUTENOR 250R-100ML | ruthenium replenisher | Ru: 5 g/100 ml | 100 ml | RU011102 |
| RUTENOR 200RA | blackening additive (liquid) | | 100 ml / 1 L | RU011301 |
| RUTENOR 200RAS | blackening additive (powder) | | 100 g | RU012401 |
| RUTENOR 200S | conducting salts | | 1 kg | RU011201 |

Ru

RUTENOR® 305



gunmetal ruthenium flash solutions for bath plating



RUTENOR 305 is a black / anthracite / gunmetal / dark grey ruthenium plating process with a compact uniform deposit of pure ruthenium.

RUTENOR 305 is generally used as an alternative of black rhodium due to its very similar colour.

OPERATIONAL SETTINGS



RUTENOR 305



dark-grey

| | | | |
|----|-------------|---------------|------------------|
| L* | 60.0 | code | RU010301 |
| a* | 0.4 | form | ready to use |
| b* | 0.8 | concentration | Ru: 5 g/l |
| | | packaging | 1 L |

RUTENOR 305C



dark-grey

| | | | |
|----|-------------|---------------|-----------------------|
| L* | 60.0 | code | RU011701 |
| a* | 0.4 | form | concentrated |
| b* | 0.8 | concentration | Ru: 5 g/200 ml |
| | | packaging | 200 ml |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------|-----------------------|-------------------|-----------|----------|
| RUTENOR 350R | ruthenium replenisher | Ru: 50 g/l | 1 L | RU010501 |
| RUTENOR 300RA | blackening additive | | 1 L | RU012201 |
| RUTENOR 300S | conducting salts | | 1 kg | RU012301 |

Ru

RUTENOR® HD | HDX

hardeners for ruthenium solutions for bath plating

RUTENOR HD and HDX are innovative chemical additives capable of hardening, compacting and darkening deposits of ruthenium.

RUTENOR HD and HDX are easy to use and do not require any rectifiers since they are simply used by immersion.

OPERATIONAL SETTINGS

| | | | |
|---|---|---|---|
|  300 sec |  60° C |  4.0 V |  Ti/Pt |
| time | temperature | voltage | anode |

| product | | form | packaging | code |
|--------------------|--------------------|--------------|--------------|----------|
| RUTENOR HD | hardening additive | ready to use | 1 - 25 L | RU012701 |
| RUTENOR HDX | hardening additive | concentrated | 100 ml - 1 L | RU010201 |

Ag

SILCOR® 501



cyanide free silver solutions for bath plating



SILCOR 501 is a cyanide-free silver flash and thickness (up to 10 microns) plating process that allows the deposition of an extremely white layer of silver. The special features of this process are the electrolytic stability and the high quality of the deposit in total absence of cyanides in solution.

SILCOR 501 can be applied directly on silver and gold, or, after a special pre-treatment, even on nickel and copper alloys.

OPERATIONAL SETTINGS

| | | | |
|---|---|---|---|
|  120 sec |  20° C |  2.0 V |  pure silver |
| time | temperature | voltage | anode |

SILCOR 501



white silver

| | | | |
|----|-------------|---------------|-------------------|
| L* | 98.6 | code | AG050101 |
| a* | 0.0 | form | ready to use |
| b* | 2.5 | concentration | Ag: 25 g/l |
| | | packaging | 1 L |

Make-up & Maintenance

| | | concentration | packaging | code |
|----------------------|---|--------------------|-----------|----------|
| SILCOR 501P | cyanide free strike-silver solution for bath plating (ready to use) | Ag: 2.5 g/l | 1 - 25 L | AG050301 |
| SILCOR 501D | fixing treatment (ready to use) | | 1 L | AG050201 |
| SILCOR 501DC | fixing treatment (concentrated) | | 1 L | AG050901 |
| SILCOR 501RAG | silver replenisher | Ag: 60 g/l | 1 L | AG051001 |
| SILCOR 501RB | brightener additive | | 1 L | AG050601 |
| SILCOR 501RW | wetting agent | | 1 L | AG050701 |
| SILCOR 501PH | pH corrector | | 1 L | AG050501 |
| SILCOR 501S | conducting salts | | 1 kg | AG050401 |
| SILCOR 501SC | complexing salts | | 1 kg | AG050801 |

Ag

SILCOR® 100



silver flash solutions for bath plating

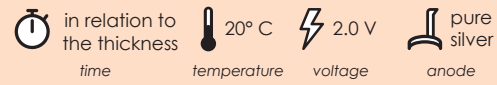


SILCOR 100 is an extremely white decorative silver plating process which is easy to use due to the presence of organic brighteners.



SILCOR 100 is generally used as a bright white finish in pure silver surfaces.

OPERATIONAL SETTINGS



SILCOR 100



white silver

| | | | |
|----|------|-----------|------------------|
| L* | 99.1 | form | make up solution |
| a* | 0.7 | packaging | 1 - 25 L |
| b* | 1.4 | | |

Make-up & Maintenance

| | | packaging | code |
|-------------|------------------------------|-----------|----------|
| SILCOR 101 | brightener additive | 1 - 5 L | AG011001 |
| SILCOR 101C | brightener additive (powder) | 1 kg | AG010801 |
| SILCOR 102 | wetting agent | 1 - 5 L | AG011101 |
| SILCOR 102C | wetting agent (concentrated) | 1 L | AG010301 |
| SILCOR 100S | conducting salts | 1 kg | AG011201 |

Ag

SILCOR® 200



silver thickness and electroforming solutions for bath plating



SILCOR 200 is a thickness (up to 300 microns) silver plating solution which is used both for intermediate deposition and for electroforming process thanks to the particular hardness of the deposit provided by inorganic additives contained in the brightener agent.



OPERATIONAL SETTINGS



SILCOR 200



white silver

| | | | |
|----|------|-----------|------------------|
| L* | 98.6 | form | make up solution |
| a* | 0.0 | packaging | 1 - 25 L |
| b* | 2.5 | | |

Make-up & Maintenance

| | | packaging | code |
|--------------|-----------------------|-----------|----------|
| SILCOR 201 | wetting agent | 1 L | AG020401 |
| SILCOR 202 | brightener additive | 1 L | AG020501 |
| SILCOR 200RN | depolarizing additive | 1 L | AG020601 |
| SILCOR 200RS | hardening additive | 1 L | AG020301 |
| SILCOR 204SP | stabilizing additive | 1 L | AG020105 |

Ni

NICKELOR 100



polish nickel solutions for bath plating



NICKELOR 100 is a bright white nickel plating process that can be used for depositions of pure nickel to increase the brightness of the treated objects.



NICKELOR 100 is characterised by a high levelling power able to cover porosity and polishing score marks.



NICKELOR 100 offers a high corrosion protection and wear resistance.

OPERATIONAL SETTINGS



300 sec

time



55° C

temperature



4.0 V

voltage



Ni

anode

NICKELOR 101



grey

L* **83.6** code NI013601

a* **0.7** form ready to use

b* **6.2** packaging 1 - 25 L

Cu

CUPRALOR 100



acid polish copper solutions for bath plating



CUPRALOR 100 is a bright copper plating process that can be used for pure copper depositions, considerably increasing the brightness of the objects to be treated.



CUPRALOR 100 is characterised by a high levelling power able to cover porosity and polishing score marks.



CUPRALOR 100 is a perfect intermediate layer before finishing with nickel, bronze and other metals.

OPERATIONAL SETTINGS



in relation to the thickness

time



20° C

temperature



2.5 V

voltage



Cu

anode

CUPRALOR 101



pink

L* **88.3** code RA020801

a* **13.4** form ready to use

b* **14.0** packaging 1 - 25 L

Sn

I-WHITE



acid white tin solutions for bath plating



I-WHITE is a white tin ready to use plating solution that permits extremely bright and levelled tin depositions.



I-WHITE is totally cyanide free and thanks to its high performances, efficiency and extraordinary white colour, it is a valid alternative to precious metals finishings for costume jewellery and fashion accessories.

OPERATIONAL SETTINGS



90 sec

time



room temp

temperature



2.5 V

voltage



Ti/Pt or Sn

anode

I-WHITE



white

L* **94.0** code SN010101

a* **0.6** form ready to use

b* **3.5** packaging 1 L



SG011901



CLEANOR 100

electrolytic degreasing solution

CLEANOR 100 is a line of electrolytic degreasings with high performances used to prepare and activate the surface of metallic substrates prior to electroplating.

OPERATIONAL SETTINGS



| product | | form | packaging | code |
|---------------------|--|--------------|-----------|----------|
| CLEANOR 101 | electrolytic degreaser for precious metals | ready to use | 1 - 5 L | SG011901 |
| CLEANOR 101P | electrolytic degreaser for precious metals | powder | 1 kg | SG012001 |
| CLEANOR 138L | electrolytic degreaser for industrial uses | concentrated | 25 L | SG010530 |
| CLEANOR 181P | electrolytic degreaser for industrial uses | powder | 25 kg | SG011725 |



SG021601



CLEANOR 200

ultrasonic degreasings

CLEANOR 200 is a line of degreasings for ultrasonic washing machines used to remove pastes and oils in an easy way.

The line consists of both alkaline and neutral soaps that can be used with particularly delicate finishes too.

OPERATIONAL SETTINGS



| product | | form | packaging | code |
|----------------------|--|--------------|-----------|----------|
| CLEANOR 201P | ultrasonic degreaser suitable for precious metals | powder | 1 kg | SG021401 |
| CLEANOR 293TN | ultrasonic degreaser suitable for sensitive metals | concentrated | 25 L | SG020325 |
| CLEANOR 203 | ultrasonic degreaser for industrial uses | concentrated | 1 L | SG021601 |
| CLEANOR 222P | ultrasonic degreaser for industrial uses | powder | 25 kg | SG020425 |
| CLEANOR 204 | soap for vibrators and tumbler machines | concentrated | 1 L | SG021701 |



AT010305



CLEANOR 300

neutralizing and activator solutions

CLEANOR 300 is a line of neutralizing and activators solutions to remove contaminating agents prior the final plating bath step, for example degreasing or cyanide residues.

| product | | form | packaging | code |
|---------------------|------------------------------------|--------------|-----------|----------|
| CLEANOR 301 | neutralizing for plating processes | ready to use | 1 - 10 L | AT010301 |
| CLEANOR 302P | neutralizing for plating processes | powder | 1 kg | AT010401 |
| CLEANOR 303 | neutralizing for cyanides | concentrated | 25 kg | NT010125 |
| CLEANOR 303P | neutralizing for cyanides | powder | 1 kg | NT010401 |
| CLEANOR 305P | chemical deoxidizing | powder | 25 kg | AT010125 |
| CLEANOR 306P | acitvator for zamak | powder | 25 kg | AT010525 |
| CLEANOR 304 | electropolishing solution for gold | ready to use | 25 L | EB010201 |
| CLEANOR 304P | electropolishing solution for gold | powder | 1 kg | EB010101 |



SG011901

PROTECOR 201

anti-tarnish chemical passivation

PROTECOR 201 is an innovative nano-composite non-toxic chemical passivation, for silver and copper based alloys as pink gold, brass and bronze, used as the perfect protection against corrosion and oxidation without altering the original appearance of the surface. PROTECOR 201 protects jewellery from fingerprints, artificial light of showcases and it is biologically safe and skin-neutral.

PROTECOR 201 can be used for immersion and for electrolysis, by adding conductive salts and using special Ti/Ir electrodes. Electrolytic application of PROTECOR 201 exponentially increases the level of protection and resistance.

OPERATIONAL SETTINGS

300 sec
time

55° C
temperature

5 V
voltage

Ti/Ir
anode

| product | | form | packaging | code |
|---------------------------|------------------------------------|--------------|-----------|----------|
| PROTECOR 201-1L | nanocomposite antitarnish solution | concentrated | 1 L | PS010101 |
| PROTECOR 201-100ML | nanocomposite antitarnish solution | concentrated | 100 ml | PS010105 |
| PROTECOR 200BS | nanocomposite antitarnish solution | ready to use | 1 L | PS010201 |
| PROTECOR 200S | conducting salts | | 100 g | PS010110 |



ST010705

STRIPPERS

strippers for metals and lacquers

A complete line of chemicals for selective dissolution of metals and paints without attacking surfaces.

Strippers solutions are generally used to remove and recover precious metal residues from the racks.

| product | | | packaging | code |
|-------------------|----------------------------|--|-----------|----------|
| STR-200CU | stripper for copper | | 25 L | ST010125 |
| STR-221CUP | stripper powder for copper | | 5 kg | ST011105 |
| STR-300AU | stripper for gold | | 5 L | ST010705 |
| STR-400PD | stripper for palladium | | 1 - 25 L | ST011801 |
| STR-T27SP | stripper for lacquers | | 1 L | ST010625 |



BR010225

BURNISHES

chemical burnishing solutions

A complete line of chemical solutions used to obtain antique two-colour effects on silver and brass surfaces through accelerated oxidation.

OPERATIONAL SETTINGS

20 -60 sec
time

25° C
temperature

| product | | | packaging | code |
|-------------------------|---|--|-----------|----------|
| SILVERBLACK 100A | grey-black burnishing for silver 'part A' | | 25 L | BR010325 |
| SILVERBLACK 100B | grey-black burnishing for silver 'part B' | | 25 L | BR010425 |
| SILVERBLACK 200 | blue-black burnishing for silver | | 1 L | BR010125 |
| BRUNIT 300 | burnishing for brass and copper alloys | | 1 L | BR010225 |

OR027701



CYANIDES

The line of Berkem high purity cyanides for galvanic use, it is available in 25 - 50 kg packs and in a comfortable homologated 1 kg pack to facilitate the handling process and to avoid the surplus storage.

Please note that cyanides are subjected to strict international standards

| product | CAS | purity | formula | title | packaging | code |
|--------------------------|----------|---------|---------------------|------------------------|------------|----------|
| POTASSIUM CYANIDE | 151-50-8 | min 98% | KCN | (K) 60,0% | 1-25-50 kg | SA010201 |
| SODIUM CYANIDE | 143-33-9 | min 97% | NaCN | (Na) 46,9% | 1-5-25 kg | SA010301 |
| COPPER CYANIDE | 544-92-3 | min 98% | CuCN | (Cu) 70,8% | 1-25 kg | SA010401 |
| ZINC CYANIDE | 557-21-1 | min 98% | Zn(CN) ₂ | (Zn) 55,7% | 1-25 kg | SA010501 |
| SILVER CYANIDE | 506-64-9 | min 99% | AgCN | (Ag) 80,3-80,7% | 1 kg | SA010701 |

DS-1000

dosing machine for enamels

DS-1000 is the practical electro-pneumatic jewellery glaze doser for accurate and fast applications without waste or contamination. The pneumatic glaze doser makes the work easier for operators and guarantees better results in terms of quality and time, reducing the risk of defects and thus significantly increasing process margins at larger scales thanks to the elimination of waste.

DS-1000 is equipped with:

- anti-drip system for the management of low viscosity glazes;
- digital timer adjustable from 0.01 to 30 seconds, for programmed precision glaze dosages;
- pedal for manual dosing;
- 10 ml syringe connector;
- 1 x 10 ml syringe;
- 3 different size needles.

DS1000-ENALOR

dosing machine for enamels



code MG010801

size 23.5 x 22.5 x 6.3 cm

weight 2.2 kg

Accessories



MG014901

| | | code |
|------------------------------|--|----------|
| ENALOR VACUUM KIT 420 | vacuum kit for enamels pumps 4 cu.m./h - chamber 20 cm | MG014901 |
| VACUUM PUMP 467 | vacuum pump 4 cu.m./h | MG015201 |
| VACUUM CHAMBER 200 | vacuum chamber size 20 cm | MG015301 |

Spare parts



| | | code |
|------------------------|---|----------|
| SPARE DS-1010ML | dosing syringe for enamels 10 ml (20 pcs) | VA016001 |
| SPARE DS-2010ML | connector for dosing syringe 10 ml | VA016101 |
| SPARE DS-1005ML | dosing syringe for enamels 5 ml (20 pcs) | VA016201 |
| SPARE DS-2005ML | connector for dosing syringe 5 ml | VA016301 |
| SPARE DS-1030ML | dosing syringe for enamels 30 ml (20 pcs) | VA016501 |
| SPARE DS-2030ML | connector for dosing syringe 30 ml | VA016401 |
| SPARE DS-G14 | needles for enamels Gauge 14 (100 pcs) | VA016801 |
| SPARE DS-G15 | needles for enamels Gauge 15 (100 pcs) | VA016901 |
| SPARE DS-G16 | needles for enamels Gauge 16 (100 pcs) | VA017901 |
| SPARE DS-G18 | needles for enamels Gauge 18 (100 pcs) | VA017001 |
| SPARE DS-G19 | needles for enamels Gauge 19 (100 pcs) | VA017101 |
| SPARE DS-G20 | needles for enamels Gauge 20 (100 pcs) | VA017201 |
| SPARE DS-G21 | needles for enamels Gauge 21 (100 pcs) | VA017301 |
| SPARE DS-G22 | needles for enamels Gauge 22 (100 pcs) | VA017401 |
| SPARE DS-G23 | needles for enamels Gauge 23 (100 pcs) | VA017501 |
| SPARE DS-G25 | needles for enamels Gauge 25 (100 pcs) | VA017601 |
| SPARE DS-G26 | needles for enamels Gauge 26 (100 pcs) | VA017701 |
| SPARE DS-G27 | needles for enamels Gauge 27 (100 pcs) | VA017801 |
| SPARE DS-G30 | needles for enamels Gauge 30 (100 pcs) | VA018001 |
| SPARE DS-G32 | needles for enamels Gauge 32 (100 pcs) | VA018101 |

STILOR

pen plating machine & accessories

STILOR 100 is the exclusive and compact pen plating machine used for precise depositions, 100% Made in Italy, perfect to carry out repairs, able to perform the degreasing of the pieces thanks to its special high power and designed to decorate the surrounding zones and details. STILOR 100 is the ideal choice for pen plating treatments. Moreover, this pen plating machine is an excellent alternative to pilot systems for plating baths of small objects: the exclusive satellite STILOR 100S, which can be connected to the STILOR 100 unit, converts the unit into a small bath plating system complete with 150 ml beakers and Ti/Pt small anodes (4 units).

STILOR 103 Evo, with its easy grip and very light weight, is totally made of titanium with a special treatment based on pure platinum. STILOR 103 Evo, guarantees a simple and perfect deposition without bubbles in large surfaces and on complicated details.

STILOR 100 is equipped with:

- 1 easy to handle titanium pen (STILOR 103 Evo) with tips;
- 2 cables for connesions (black and red) and crocodile plug;
- 2 pyrex beakers of 25 ml for plating solutions;
- 2 PET glasses of 25 ml;
- 1 pyrex beaker of 100 ml with Ti | Pt anode for the degreasing process.

STILOR 100



pen plating machine

code MG010501

size 18 x 16 x 13 h cm

weight 1.5 kg

STILOR 100S



satellite unit for Stilor 100

code MG012201

size 18 x 16 x 6 h cm

weight 1 kg

Spare parts



MG016401



VA013001



VA012501



VA012401




| | | code |
|------------------------------|---|----------|
| STILOR 103 EVO | Ti pen for pen plating (22 - Ø 3,5 cm) | MG016401 |
| SPARE 101-REDCAB-PEN | cable for pen plating (90 cm) | VA012601 |
| SPARE 101-REDCAB-AN | red cable for STILOR100 (90 cm) | VA010800 |
| SPARE 102-BT10 | double brown tips for pen plating (10 pcs) | VA012501 |
| SPARE 102-BT100 | double brown tips for pen plating (100 pcs) | VA012510 |
| SPARE 103-WT10 | double white tips for pen plating (10 pcs) | VA012401 |
| SPARE 103-WT100 | double white tips for pen plating (100 pcs) | VA012410 |
| SPARE 104-GRT5 | felt tips for pen plating (5 pcs) | VA012901 |
| SPARE 105-PYREX25 | pyrex beaker 25 ml for STILOR 100 | VA013001 |
| SPARE 106-PYREX100 | pyrex beaker 100 ml for STILOR 100 | VA013101 |
| SPARE 107-PET25 | PET beaker 25 ml for STILOR100 | VA013201 |
| SPARE 108-ANTIPT5X1.5 | degreaser anode for STILOR 100 | VA013301 |
| SPARE 109-BLK CAB | black cable for STILOR connections | VA013401 |
| SPARE 110-ANTIPT5X1.5 | Ti/Pt anode 5 x 1.5 cm for Stilor 100S | VA014401 |

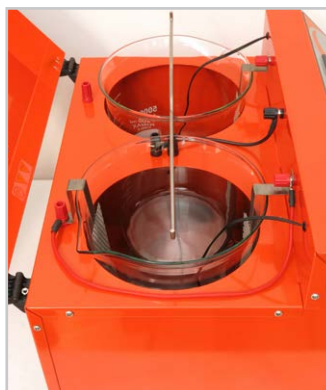
GALVALINK®

benchtop plating plants

GALVALINK is the line of 1-, 2- and 5-litre modular pilot galvanic systems characterized by maximum practicality, versatility of use and advanced engineering. GALVALINK makes possible to carry out any galvanic bath process in accordance with best practice, controlling its actual consumption. GALVALINK ensures the whole plating process, stores working data and manages 5 independent work programs. GALVALINK is modular: it fits to all different plating needs with an optimized investment.

- Easy-to-use digital interface Multi-parameter working (voltage, current, time, amps | minutes)
- 5 independent work programs each with their own ampereminutemetre for calculating consumption Powerful variable speed magnetic stirrer
- Thermal safety probe
- Stainless steel assembly components

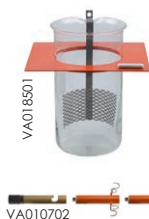
| | GALVALINK 302B | GALVALINK 302S | GALVALINK 305S |
|-------------------|---|---|---|
| model | 2 L base unit | 2 L satellite unit | 5 L satellite unit |
| code | MG014101 | MG014001 | MG012101 |
| |  |  |  |
| rectifier | included (max 12 V - 10 A) | not included * | not included ** |
| tanks | 2 L x 2 pyrex glasses | 2 L x 2 pyrex glasses | 5 L x 2 pyrex glasses |
| plate function | 1 room temp. + 1 heater/stirrer | 2 heater/stirrer | 2 heater/stirrer |
| anodes | 1 stainless steel + 1 Ti/Pt | 2 Ti/Pt | 2 Ti/Pt |
| power consumption | 350 W | 700 W | 700 W |
| size | 30 x 30 x 34 h cm 12.5 kg | 30 x 30 x 34 h cm 12.5 kg | 44 x 40 x 43 h cm 19 kg |



* GALVALINK 302S has to be connected to the base unit GALVALINK 302B or to a dedicated power rectifier (POWER line)

** GALVALINK 305S has to be connected to a dedicated power rectifier (POWER line)

Accessories



| | | code |
|--------------------------|--|----------|
| SPARE 312-KIT-1L | 1 L buff reduction kit for GALVALINK 302B - 302S 1 L tank - Ti/Pt anode adapter - magnetic anchor | VA018501 |
| JIGLINK-KIT | modular universal rack: top + extension | VA010702 |
| JIGLINK-TOP | top for rack | VA010710 |
| JIGLINK-EXTENSION | extension for rack | VA010700 |

VA015101



Crocodiles and cables

code

| | | |
|----------------------------------|---|----------|
| SPARE 301-CRPLUG10 | crocodile plug for plating connections (max. 10A) | VA012101 |
| SPARE 318-CRPLUG30 | crocodile plugs for plating connections (couple Red/Black max. 30A) | VA019501 |
| SPARE 302-REDCAB10 | red cable for plating connections (max. 10A - 90 cm) | VA012201 |
| SPARE 303-BLKCAB10 | black cable for plating connections (max. 10A - 90 cm) | VA012301 |
| SPARE 316-REDCAB30 | red cable for plating connections (max. 30A - 100 cm) | VA019301 |
| SPARE 317-BLKCAB30 | black cable for plating connections (max. 30A - 100 cm) | VA019401 |
| SPARE 321-REDCAB-AN305S | red cable for GALVALINK 305S secondary anode (max. 30A - 35 cm) | VA019902 |
| SPARE 320-BLKCAB-SPINOX-2 | black cable for hook support (2 L) | VA019801 |
| SPARE 320-BLKCAB-SPINOX-5 | black cable for hook support (5 L) | VA019901 |

VA012201



VA012301



Anodes

code

| | | |
|---------------------------------|--|----------|
| SPARE 304-ANTIPT10X5 | Ti/Pt anode for GALVALINK (10 x 5 h cm) | VA012701 |
| SPARE 304-ANTIPT20X5 | Ti/Pt anode for GALVALINK (20 x 5 h cm) | VA015101 |
| SPARE 304/2-ANTIPT20X5 | secondary Ti/Pt anode for GALVALINK (20 x 5 h cm) | VA015102 |
| SPARE 305-ANST302BS | stainless steel anode for GALVALINK (16 x 5 h cm) | VA013501 |
| SPARE 305-ANST305S | stainless steel anode for GALVALINK (25 x 5 h cm) | VA014501 |
| SPARE 307-ANIR10X5 | Ti/Ir anode for GALVALINK (10 x 5 h cm) | VA016601 |
| SPARE 307-ANIR20X5 | Ti/Ir anode for GALVALINK (20 x 5 h cm) | VA016701 |
| SPARE 307-ANIR10X10 | Ti/Ir anode for GALVALINK (10 x 10 h cm) | VA015201 |
| SPARE 311-ANNI10X5X1 | nickel anode complete with hook and filter bag (10 x 5 x 1 cm) | VA018401 |
| SPARE 314-ANCU15X6,5X0,5 | copper - phosphorus anode for GALVALINK (15 x 6.5 x 0.5 cm) | VA018701 |
| SPARE 315-ANAG5X10 | silver anode for GALVALINK (10 x 5 h cm) | VA018801 |
| SPARE 313-MERAK-7X15X3 | meraklon bag for Cu and Ni anodes (15 x 6.5 x 0.5 cm) | VA018601 |

VA015101



VA013501



VA018401



Glasses

code

| | | |
|--------------------------|---|----------|
| SPARE 308-PYREX1L | 1 L pyrex glass for GALVALINK 302B - 302S | VA019201 |
| SPARE 308-PYREX2L | 2 L pyrex glass for GALVALINK 302B - 302S | VA014101 |
| SPARE 308-PYREX5L | 5 L pyrex glass for GALVALINK 305S | VA014601 |

VA014101



Other spare parts

code

| | | |
|---------------------------|---------------------------------------|----------|
| SPARE 309-AM6X35 | medium magnetic anchor (0.6 x 3.5 cm) | VA018201 |
| SPARE 310-SPINOX-2 | stainless steel hook support 2 L | VA018301 |
| SPARE 310-SPINOX-5 | stainless steel hook support 5 L | VA011401 |

VA018201



POWER

rectifiers for plating

POWER is the line of high-tech digital current rectifiers for use in galvanic systems of any size dedicated to different surface treatments (electrodeposition, cataphoresis, etc.). The innovation lies in the built-in proprietary software that allows different programs (from 5 to 9 depending on the model) to be set simply and intuitively, including the automatic management of work in ramps and the precise calculation of actual consumption for each work cycle. This calculation is essential for the addition of the different replenishers to the solution (especially in the presence of automatic dosing pumps) and to assess production costs. The combination of these features ensures that the colour and quality of the deposit will be maintained over time.

- High-sensitivity switching electronic power supplies
- Multiple and programmable work cycles
- Calculation of consumption for each individual program
- Easy-to-use digital interface



| products | | volt | size | weight | code |
|-----------------------|---|--------------|-------------------|--------|----------|
| POWER 202RP | digital programmable rectifier optimized for cataphoresis | 40 V - 2 A | 15 x 21 x 9 h cm | 2 kg | MG010701 |
| POWER 210RP | digital programmable rectifier | 12 V - 10 A | 15 x 21 x 9 h cm | 2 kg | MG011601 |
| POWER 330RP | digital programmable rectifier | 12 V - 30 A | 28 x 19 x 13 h cm | 4 kg | MG011901 |
| POWER 350RP | digital programmable rectifier | 12 V - 50 A | 28 x 19 x 13 h cm | 5 kg | MG014701 |
| POWER 45012RP | digital programmable rectifier | 12 V - 50 A | 40 x 35 x 25 h cm | 18 kg | MG015501 |
| POWER 410012RP | digital programmable rectifier | 12 V - 100 A | 40 x 35 x 25 h cm | 18 kg | MG015401 |
| POWER 43048RP | digital programmable rectifier optimized for cataphoresis | 48 V - 30 A | 40 x 35 x 25 h cm | 18 kg | MG015601 |
| POWER 430100RP | digital programmable rectifier optimized for cataphoresis | 100 V - 30 A | 40 x 35 x 25 h cm | 18 kg | MG013701 |

DOSINGPOWER

dispenser for additives

DOSINGPOWER is the innovative automatic dispenser to restore plating baths based on their real consumption reducing manual intervention, waste and dosing errors. DOSINGPOWER works solely connected to POWER rectifiers series 300 or 400 which, thanks to the built-in computer, calculates the ampere minutes necessary to activate the dispenser. Therefore on reaching a set number of ampere minutes, the rectifier automatically activates the DOSINGPOWER that adds the quantity of replenisher necessary to perfectly restore the bath.

- Automatic bath restore
- Automatic dosage based on the ampere minutes detected
- Connection necessary to POWER rectifiers
- 2 dosing pumps for different mixes of replenisher or different dosage for baths with different consumptions

DOSINGPOWER

automatic dosing machine for plating additives



code MG015701

dosing flow 0.1 - 20.0 L/h

size 35 x 27,5 x 52 h cm

weight 12 kg

FAN OVENS

designed for cataphoresis

A range of fan ovens for general drying use and for baking cataphoretic paints or enamels. The line comprises both small bench ovens and large professional ovens.



MG015804



MG015801

| product | temperature | absorption | capacity | size | code |
|-------------------|--------------|------------|----------|--------------------|----------|
| HEATER 303 | 50 / 300 °C | 2600 W | 25 L | 44 x 54 x 49 h cm | MG015801 |
| HEATER 304 | 50 / 300 °C | 2800 W | 45 L | 59 x 70 x 59 h cm | MG015901 |
| HEATER 306 | 100 / 275 °C | 16 kW | 90 L | 94 x 93 x 115 h cm | MG016101 |

INDUSTRIAL GALVANIC PLANTS

from need to production line

Berkem designs and manufactures industrial galvanic plants based on the specifications provided by the customer and the related needs in terms of process, space, product and investment. Thanks to the technical expertise in the galvanic process, Berkem guarantees optimized and complete processing cycle projects, assessing any integrated automation systems where required or recommended.

The main feature of Berkem galvanic systems is the modularity that allows the process to be adapted over time to the production capacity of the customer or to the different market requirements.

- Easy-to-use digital interface
- Durable and quality materials and components
- Antacid coatings
- 100% Made in Italy



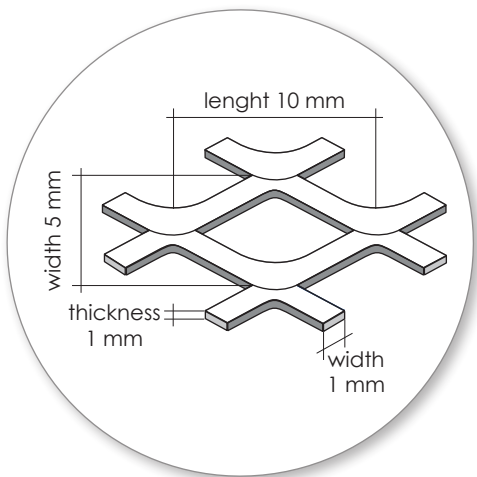
PLATIFUSION®

insoluble anodes

PLATIFUSION is the advanced fusion/diffusion treatment based on pure platinum for treating titanium mesh insoluble anodes for electrochemical and industrial applications.

PLATIFUSION is a technology by Berkem Srl covered by trade secret and registered trademark. Insoluble anodes require inert material on their surface and pure platinum is the best choice: it is resistant to corrosion and 100% recyclable and recoverable.

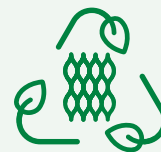
Platinized titanium mesh anodes with PLATIFUSION technology have a slightly higher initial purchase cost than RuMMO mixed oxide anodes, but if we consider the entire life cycle of the anode, the convenience moves decidedly towards PLATIFUSION anodes. Moreover, their duration over time is superior thanks to the typical features of the PLATIFUSION process.



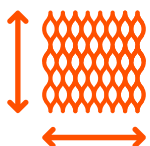
- **LONG LIFE: THICKNESS UNIFORMITY** (up to 5 microns) which increases the lifetime
- **EFFICIENCY: COMPACTNESS AND PERFECT ADHERENCE** which improve the quality of the depositions of metal
- **VERSATILITY: LOWER POROSITY** of the mesh which makes it possible to use the same anode in different solutions without causing pollution
- **EASY MAINTENANCE: LESS ROUGHNESS** which facilitates washing after use
- **QUALITY: LOWER ROUGHNESS** of the platinum deposit underlines the quality of the production process

Infinitely Circular Anodes is the regeneration service for exhausted platinized titanium mesh anodes with PLATIFUSION® treatment

-  no metal waste
-  low environmental impact
-  total recovery of the titanium meshes
-  maximum saving
-  infinite life cycle of the anode



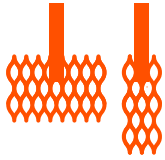
circular by design



Custom insoluble anodes

PLATIFUSION is available for insoluble anodes of fully customizable shape, thickness and size in fast delivery terms.

| | |
|-------------------|--|
| metal base | Ti grade 1 |
| shape of the base | mesh 5 x 10 x 1 x 1 mm |
| sizes | custom assemblable modules max 40 x 80 x 0.1 cm |
| surface factor | 1.2 |
| Pt thickness | 1 - 5 µm |
| Ti stem | max 100 x 2 x 0.15 cm max 100 x 3 x 0.15 cm |



Special insoluble anodes

PLATIFUSION includes a range of insoluble electrodes in platinized titanium mesh, with standard shapes and sizes, specifically designed for the use of galvanic solutions based on precious metals in tanks from 1 to 300 liters.

| | |
|-------------------|------------------------|
| metal base | Ti grade 1 |
| shape of the base | mesh 5 x 10 x 1 x 1 mm |
| surface factor | 1 |
| Pt thickness | 2.5 µm |
| Ti stem | 25 x 2 x 0.15 cm |



Horizontal

| | size | beaker | code |
|-------------------------|-----------|--------|----------|
| PLATIFUSION 510H | 5 x 10 cm | 1 L | AN020101 |
| PLATIFUSION 515H | 5 x 15 cm | 2 L | AN020102 |
| PLATIFUSION 520H | 5 x 20 cm | 5 L | AN020103 |



Curved

| | size | beaker | code |
|--------------------------|-----------|--------|----------|
| PLATIFUSION 510SC | 5 x 10 cm | 1 L | AN020401 |
| PLATIFUSION 515SC | 5 x 15 cm | 2 L | AN020402 |
| PLATIFUSION 520SC | 5 x 20 cm | 5 L | AN020403 |



Cylindrical

| | size | beaker | code |
|--------------------------|---------------|--------|----------|
| PLATIFUSION 4095C | 4 x Ø 9.5 cm | 1 L | AN020501 |
| PLATIFUSION 5125C | 5 x Ø 12.5 cm | 2 L | AN020502 |
| PLATIFUSION 7165C | 7 x Ø 16.5 cm | 5 L | AN020503 |



Vertical

| | size | beaker | code |
|--------------------------|------------|--------|----------|
| PLATIFUSION 510V | 5 x 10 cm | 1 L | AN020201 |
| PLATIFUSION 515V | 5 x 15 cm | 2 L | AN020202 |
| PLATIFUSION 520V | 5 x 20 cm | 5 L | AN020203 |
| PLATIFUSION 1020V | 10 x 20 cm | | AN020301 |
| PLATIFUSION 1025V | 10 x 25 cm | | AN020302 |
| PLATIFUSION 1030V | 10 x 30 cm | | AN020303 |
| PLATIFUSION 1035V | 10 x 35 cm | | AN020304 |
| PLATIFUSION 1040V | 10 x 40 cm | | AN020305 |
| PLATIFUSION 1045V | 10 x 45 cm | | AN020306 |
| PLATIFUSION 1050V | 10 x 50 cm | | AN020307 |



Beaker Kit

| | size | beaker | code |
|--------------------------|-----------|--------|----------|
| PLATIFUSION 510K1 | 5 x 10 cm | 1 L | AN020601 |
| PLATIFUSION 510K2 | 5 x 15 cm | 2 L | AN020602 |
| PLATIFUSION 510K5 | 5 x 20 cm | 5 L | AN020603 |

OTHER ANODES

A complete range of different metal anodes for galvanic use: mixed metal oxide of ruthenium and iridium, electrolytic copper, copper-phosphorus, oxygen-free copper, electrolytic nickel, graphite and pure silver anodes.

AN010100



AN010900



| product | | size | code |
|-------------------------|---------------------------------|------------|----------|
| ANODE 205GRF | graphite anode | customized | AN010100 |
| ANODE 206NI | nickel - electrolytic anode | customized | AN010200 |
| ANODE 207CU-DHP | copper - DHP electrolytic anode | customized | AN010400 |
| ANODE 207CU-OFHC | copper - oxygen free anode | customized | AN010600 |
| ANODE 208CU-P | copper - phosphorus anode | customized | AN010700 |
| ANODE 202MMO-Ru | MMO Ti/Ru mesh grid anode | customized | AN010300 |
| ANODE 202MMO-Ir | MMO Ti/Ir mesh grid anode | customized | AN011000 |
| ANODE 204AG | pure Ag anode | customized | AN010900 |



CATAFOR





high performance cathophoretic lacquers

CATAFOR is a high performance cathodic dip-paint coating process, transparent and coloured, able to deposit incredibly resistant films which are imperceptible to the touch and the eye in a uniform and long-lasting manner on any metal object that needs protection against oxidizing and chemical agents. CATAFOR is able to deposit extremely transparent films as well as very resistant layers without colour shade limits.

CATAFOR 400 series includes low and high thickness lacquers developed for several uses and application fields: for high jewellery, for luxury colour effects, for silver and costume jewellery to prevent oxidation, for fashion accessories to increase the wear resistance.

CATAFOR requires a special current rectifier (high voltage low ampère and with programmable ramp) and a fan drying oven with controlled temperature.

OPERATIONAL SETTINGS

| | | | |
|--|--|--|---|
|  25 sec |  25-28° C |  0 - 25 V |  stainless steel |
| <i>time</i> | <i>temperature</i> | <i>voltage</i> | <i>anode</i> |





COOKING SETTINGS

| | |
|--|--|
|  45 min |  125° C |
| <i>time</i> | <i>temperature</i> |

| | | |
|-------------------------|---|-----------|
| product | | packaging |
| CATAFOR 100 line | ready to use cathophoretic lacquers (C = opaque, T = transparent) | 5 - 10 kg |

| | | | |
|--|--|--|---|
|  101 neutral code VE014801 |  102C red code VE011401 |  102T light red code VE012001 |  103C blue code VE011501 |
|  103T light blue code VE012101 |  104C deep yellow code VE011601 |  104T light yellow code VE012201 |  105C green code VE011701 |
|  105T light green code VE012301 |  106C deep black code VE011801 |  106T light black code VE012401 |  107C deep violet code VE011901 |
|  107T light violet code VE012501 |  108C deep orange code VE012701 |  108T light orange code VE014301 |  109C lilac code VE012801 |
|  109T light lilac code VE014001 |  110C deep lime code VE014101 |  110T light green lime code VE014201 |  111C white code VE014401 |
|  112C copper oxyde code VE014601 |  112T copper oxyde code VE014901 |  113C deep brown code VE015301 |  113T light brown code VE015901 |

| | | |
|--------------------------|--|-----------|
| product | | packaging |
| CATAFOR 400H line | ready to use high thickness cathophoretic lacquers | 1 - 10 L |

| | | | |
|---|--|--|--|
|  402H gold code VE015101 |  403H bronze code VE015201 |  404H ruby red code VE015501 |  405H polished black code VE016401 |
|  406H polished blue code VE016501 | | | |

| product | | form | packaging | code |
|---------------------|--|--------------|-----------|----------|
| CATAFOR 400L | neutral low thickness cathophoretic lacquer | concentrated | 5 - 10 kg | VE010101 |
| CATAFOR 401L | neutral low thickness cathophoretic lacquer | ready to use | 1 - 10 L | VE011001 |
| CATAFOR 400H | neutral high thickness cathophoretic lacquer | concentrated | 5 - 10 kg | VE010201 |
| CATAFOR 401H | neutral high thickness cathophoretic lacquer | ready to use | 1 - 10 L | VE015001 |



ENALOR

decorative enamels and hardeners

ENALOR is a range of two-component cold enamels with high technical features obtained by mixing only high quality epoxy resins which can be polished / lapped and laser marked after hardening.

The ENALOR enamels, even if they are considered "cold type", require a baking in a fan oven with controlled temperature in order to become hard. All ENALOR enamels are heavy metals free and comply with EN 71 part 3;1994 and annexes of 2000 and AC 2002.



product




















packaging

ENALOR 100 line

opaque cold bicomponent enamels

1 kg - 250 g

| | | | |
|--|--|---|--|
|  101B basic white 1 kg SM010201 250 g SM010202 |  102 transparent white 1 kg SM010301 250 g SM010302 |  103 white cream 1 kg SM010401 250 g SM010402 |  104 white ivory 1 kg SM010501 250 g SM010502 |
|  105 dirty white 1 kg SM010601 250 g SM010602 |  106B basic lemon yellow 1 kg SM010701 250 g SM010702 |  107B basic yellow 1 kg SM010801 250 g SM010802 |  108 dark yellow 1 kg SM010901 250 g SM010902 |
|  109B basic olive green 1 kg SM011001 250 g SM011002 |  110 orange 1 1 kg SM011101 250 g SM011102 |  111 orange 2 1 kg SM011201 250 g SM011202 |  112B basic orange 1 kg SM011301 250 g SM011302 |
|  113B basic orange 1 kg SM011401 250 g SM011402 |  114 light pink 1 kg SM011501 250 g SM011502 |  115 pink 1 kg SM011601 250 g SM011602 |  116 light red 1 kg SM011701 250 g SM011702 |
|  117B basic red 1 kg SM011801 250 g SM011802 |  118 red 1 kg SM011901 250 g SM011902 |  119 red 1 kg SM012001 250 g SM012002 |  120 red 1 kg SM012101 250 g SM012102 |
|  121B basic bordeaux 1 kg SM012201 250 g SM012202 |  122 dark red 1 kg SM012301 250 g SM012302 |  123 violet 1 kg SM012401 250 g SM012402 |  124B basic dark purple 1 kg SM012801 250 g SM012802 |
|  125 light green 1 kg SM012601 250 g SM012602 |  126 medium green 1 kg SM012701 250 g SM012702 |  127 dark green 1 kg SM012901 250 g SM012902 |  128 emerald green 1 kg SM013001 250 g SM013002 |
|  129 moss green 1 kg SM013101 250 g SM013102 |  130B basic night green 1 kg SM013201 250 g SM013202 |  131 light blue 1 kg SM013301 250 g SM013302 |  132 turquoise 1 kg SM013401 250 g SM013402 |

| | | | | | | | |
|---|--|---|---|---|--|---|---|
|  | 133 sea blue 1 kg SM013501 250 g SM013502 |  | 134 blue 1 kg SM013601 250 g SM013602 |  | 135 blue 1 kg SM013701 250 g SM013702 |  | 136 blue 1 kg SM013801 250 g SM013802 |
|  | 137 blue 1 kg SM013901 250 g SM013902 |  | 138B basic night blue 1 kg SM014001 250 g SM014002 |  | 139B basic blue 1 kg SM014101 250 g SM014102 |  | 140 dark blue 1 kg SM014201 250 g SM014202 |
|  | 141 blue 1 kg SM014301 250 g SM014302 |  | 142B basic blue black 1 kg SM014401 250 g SM014402 |  | 143 rotten green 1 kg SM014501 250 g SM014502 |  | 144B basic yellow ochre 1 kg SM014601 250 g SM014602 |
|  | 145 brick red 1 kg SM014701 250 g SM014702 |  | 146B basic coral red 1 kg SM014801 250 g SM014802 |  | 147 brick red 1 kg SM014901 250 g SM014902 |  | 148 brown 1 kg SM015001 250 g SM015002 |
|  | 149 brown 1 kg SM015101 250 g SM015102 |  | 150 brown 1 kg SM015201 250 g SM015202 |  | 151 dark brown 1 kg SM015301 250 g SM015302 |  | 152 dark brown 1 kg SM015401 250 g SM015402 |
|  | 153 black brown 1 kg SM015501 250 g SM015502 |  | 154 light grey 1 kg SM015601 250 g SM015602 |  | 155 dark grey 1 kg SM015701 250 g SM015702 |  | 156 stone grey 1 kg SM015801 250 g SM015802 |
|  | 157B basic black 1 kg SM015901 250 g SM015902 |  | 158 black green 1 kg SM016001 SM0 | | | | |

product











packaging

ENALOR 200 line

transparent cold bicomponent enamels

1 kg - 250 g

| | | | | | | | |
|---|--|---|---|---|--|---|--|
|  | 215 neutral 1 kg SM021601 250 g SM021602 |  | 201 marc red 1 kg SM020201 250 g SM020202 |  | 202 fluorescent yellow 1 kg SM020301 250 g SM020302 |  | 203 fluorescent red 1 kg SM020401 250 g SM020402 |
|  | 204 fluorescent pink 1 kg SM020501 250 g SM020502 |  | 205 fluorescent green 1 kg SM020601 250 g SM020602 |  | 206 turquoise 1 kg SM020701 250 g SM020702 |  | 207 ivory 1 kg SM020801 250 g SM020802 |
|  | 208 yellow 1 kg SM020901 250 g SM020902 |  | 209 yellow 1 kg SM021001 250 g SM021002 |  | 210B basic dark yellow 1 kg SM021101 250 g SM021102 |  | 211 orange 1 kg SM021201 250 g SM021202 |
|  | 212 light red 1 kg SM021301 250 g SM021302 |  | 213B basic red 1 kg SM021401 250 g SM021402 |  | 214 medium red 1 kg SM021501 250 g SM021502 |  | 216B basic dark grey 1 kg SM022001 250 g SM022002 |
|  | 217 light pink 1 kg SM022101 250 g SM022102 |  | 218 lilac 1 kg SM022201 250 g SM022202 |  | 219 violet 1 kg SM022301 250 g SM022302 |  | 220 green 1 kg SM022401 250 g SM022402 |

| | | | |
|--|---|---|--|
|  221 dark green 1 kg SM022501 250 g SM022502 |  222 light green 1 kg SM022601 250 g SM022602 |  223 emerald green 1 kg SM022701 250 g SM022702 |  224 light blue 1 kg SM022801 250 g SM022802 |
|  225 light blue 1 kg SM022901 250 g SM022902 |  226 light blue 1 kg SM023001 250 g SM023002 |  227B basic sea blue 1 kg SM023101 250 g SM023102 |  228B basic blue 1 kg SM023201 250 g SM023202 |
|  229B basic brown 1 kg SM023901 250 g SM023902 |  230 gold 1 kg SM023401 250 g SM023402 |  231 grey 1 kg SM023501 250 g SM023502 |  232B basic black 1 kg SM023601 250 g SM023602 |
|  233B basic black 1 kg SM023701 250 g SM023702 |  234B basic red 1 kg SM023801 250 g SM023802 | | |


product

packaging

ENALOR 300 line

special enamels and attitives

1 kg - 250 g

| | | | |
|---|--|--|---|
|  301 white mother of pearl 1 kg SM032001 250 g SM032002 |  302 gold glitters L size 1 kg SM030301 250 g SM030302 |  303 gold glitters M size 1 kg SM030401 250 g SM030402 |  304 silver glitters L size 1 kg SM030501 250 g SM030502 |
|  305 silver glitters M size 1 kg SM030601 250 g SM030602 |  306 matt metallic light gold 1 kg SM030701 250 g SM030702 |  307 matt metallic light gold 1 kg SM030801 250 g SM030802 |  308 matt metallic deep gold 1 kg SM030901 250 g SM030902 |
|  309 matt metallic pink gold 1 kg SM031001 250 g SM031002 |  310 matt metallic red gold 1 kg SM031801 250 g SM031802 | | |









product

packaging

ENALOR 400 line

hardeners for cold enamels

1 kg - 250 g

| | | | |
|---|---|---|---|
|  405 neutral 1 kg SM040501 250 g SM040502 plain pieces without border, lens effect |  406 neutral 1 kg SM040601 250 g SM040602 flat surfaces (room temperature) |  408 neutral 1 kg SM040801 250 g SM040802 flat surfaces |  401 neutral 1 kg SM040201 250 g SM040202 curve surfaces level 1 |
|  410 neutral 1 kg SM041001 250 g SM041002 curve surfaces level 2 |  411 neutral 1 kg SM041101 250 g SM041102 curve surfaces level 3 |  412 neutral 1 kg SM041201 250 g SM041202 curve surfaces level 4 |  407 neutral 1 kg SM040701 250 g SM040702 flexible plastifiers |

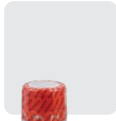


VE040301

MASKING LACQUERS

Two different solutions, that can be used both with cataphoresis and with traditional plating process, are appropriate to obtain the multichromy on the object to be treated. The masking lacquers are distinguished for their ease of use: they can be removed manually by peeling or dissolving them in a solvent.

| product | | colour | packaging | code |
|---------------------|--|------------|-----------|----------|
| BICOLOR R20 | soluble masking lacquer | red | 100 g | VE040201 |
| CATAFOR 100M | masking lacquer for cataphoretic coating (peeling-off and soluble) | light blue | 80 g | VE040301 |



VE020102

CONDUCTIVE LACQUERS

METALCOR is a conductive lacquer based on highly purity colloidal silver capable of making conductive substrates of nonconductive nature such as plastics, wax, resin, wood, glass. METALCOR is used before plating treatments to metallized surfaces. METALCOR is characterised by its ease of use and for the extraordinary distribution on treated parts by brush or airbrush.

| product | | colour | packaging | code |
|-------------------------|--|--------|-----------|----------|
| METALCOR 100V-1K | concentrated silver based conductive lacquer | silver | 1 kg | VE020101 |
| METALCOR 100V | concentrated silver based conductive lacquer | silver | 100 ml | VE020102 |
| METALCOR 100D-1L | thinner for silver based conductive lacquer | | 1 L | VE020201 |
| METALCOR 100D | thinner for silver based conductive lacquer | | 100 ml | VE020202 |



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